

IN THE SPECIFICATION

Please amend the specification by replacing the paragraph starting at page 6, line 3 with the following:

The device is equipped with multiple sensing amplifiers and pulse generators which can be configured as channels for pacing and/or sensing selected heart chambers. A MOS switch matrix 70 controlled by the microprocessor is used to configure a sensing or pacing channel by switching selected electrodes to the input of a sense amplifier or to the output of a pulse generator. The switch matrix 70 allows the device to employ either bipolar sensing/pacing using two closely spaced electrodes of a lead or unipolar sensing/pacing using one of the electrodes of a lead and the can 60 as a reference electrode. The switch matrix 70 can also connect atrial shock generator 75 to deliver an atrial cardioversion shock between coil electrode 43c and the can 60, and can connect ventricular shock generator 85 to deliver a ventricular cardioversion/defibrillation shock between coil electrode 43b and the can 60 (or the can 60 connected in common with the coil electrode 43c). In the device shown in Fig. 2, an atrial channel for sensing or pacing an atrial site is configured with tip electrode 33a, ring electrode 33b, sense amplifier 31, pulse generator 32, and an atrial channel interface 30 which communicates bidirectionally with a port of microprocessor 10. A first ventricular channel for sensing or pacing a ventricular site is configured with tip electrode 43a, coil electrode 43b, sense amplifier 41, pulse generator 42, and ventricular channel interface 40. A second ventricular channel for sensing or pacing a ventricular site is configured with tip electrode 43a, coil electrode 43b, sense amplifier 51, pulse generator 52, and ventricular channel interface 50. A second ventricular sensing channel using ventricular channel interface 50 may be configured by connecting one of the differential inputs of sense amplifier 51 to the coil electrode 43b and connecting the other input to the can 60 and coil electrode 43c.